

Express Mail Mailing Label No.: EV334240785US

PATENT Attorney Docket No. LEX-003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Gillies et al.

CONFIRMATION NO.:

9492

SERIAL NO.:

09/256,156

GROUP NO.:

1647

FILING DATE:

February 24, 1999

EXAMINER:

Kapust, R.B.

TITLE:

Enhancing the Circulating Half Life of Antibody-Based Fusion Proteins

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

		(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
	\boxtimes	(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
			the requisite Statement is below, OR
12/2004	Wabrham1	⊠ 00000153 09	the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or 256156

07/

01 FC:1806

180.00 OP

Information Disclosure Statement Serial No. 09/256,156 Page 2 of 2

(3)	after the mailing date of a final action or notice of allowance but before the payment of the issue fee , AND
	the requisite Statement is below, AND
	the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,

Date: July 8, 2004 Reg. No. 48,645

Tel. No.: (617) 248-7697 Fax No.: (617) 248-7100

Brian A. Fairchild

Attorney for the Applicants Testa, Hurwitz, & Thibeault, LLP

High Street Tower 125 High Street

Boston, Massachusetts 02110

3091033

TRADE FORM PTO - 1449

SHEET 1 OF 3

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: LEX-003

APPLICANT(S): Gillies et al.

SERIAL NO.: 09/256,156

FILING DATE: February 24, 1999 GROUP: 1647

EXAM.	T	DOCUMENT	DATE	NAME		T	CLASS	SUB	EIL	ING DATE IF
EXAM. INIT.		NUMBER	DATE	NAME	_		CLASS	CLASS		ROPRIATE
	A95	5,601,819	2/11/97	Wong et al.			-			
	A96	5,624,821	4/29/97	Winter et al						
	A97	5,679,543	10/21/97	Lawlis						
	A98	5,891,680	4/6/99	Lieschke et	al.					
	A99	5,994,104	11/30/99	Anderson et	t al.					
	A100	6,429,199	8/6/02	Krieg et al.	Krieg et al.					
	A101	6,551,592	4/22/03	Lindhofer e	et al.					
	A102	6,646,113	11/11/03	Dreyfuss et	al.					
	A103	2002/0037558	3/28/02	Lo et al.						
A104 2002/0146388 10/10			10/10/02	Gillies	Gillies					_
	A105	2003/0139365	7/24/03	Lo et al.						
	A106	2003/0139575	7/24/03	Gillies	·					
	A107	2004/0033210	2/19/04	Gillies	Gillies					
	A108	2004/0053366	3/18/04	Lo et al.						
	A109	2004/0072299	4/15/04	Gillies et al.	Gillies et al.					
	A110	2004/0082039	4/29/04	Gillies et al.	Gillies et al.					
			FORE	IGN PATEN	T DOCU	MENTS				~
EXAM. INIT.	DOCUMENT DATE NUMBER		DATE	COUNTRY CODE			FILING DATE	ABSTRACT ONLY		ENGLISH LANG (Y/N)
	B106	WO 93/20185	10/14/93	PCT						
	B107	WO 97/43316	11/20/97	PCT						



FORM PTO - 1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: LEX-003

APPLICANT(S): Gillies et al.

SERIAL NO.: 09/256,156

FILING DATE: February 24, 1999 GROUP: 1647

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	C236	Batra et al., (1993), "Insertion of Constant Region Domains of Human IgG1 into CD4-PE40 Increases Its Plasma Half-Life," Molecular Immunology, 30(4):379-386.					
	C237	Chapman et al., (1994), "Mapping Effector Functions of a Monoclonal Antibody to GD3 by Characterization of a Mouse-Human Chimeric Antibody," Cancer Immuno. Immunother., 39:198-204.					
	C238	Cruse et al., (eds.), (1995), <u>Illustrated Dictionary of Immunology</u> , p. 158, CRC Press, NY.					
	C239	de la Salle et al., (1996), "FcγR on Human Dendritic Cells," in <u>Human IgG Receptors</u> , pp. 39-55, van de Winkel et al. (eds.), R.G. Landes Co.					
	C240	Dorai et al., (1991), "Aglycosylated Chimeric Mouse/Human IgG1 Antibody Retains Some Effector Function," <u>Hybridoma</u> , 10(2):211-217.					
•	C241	Dorai et al., (1992), "Role of Inter-Heavy and Light Chain Disulfide Bonds in the Effector Functions of Human IgG1," Molecular Immunology, 29(12):1487-1491.					
	C242	Elliott et al., (1996), "Fine-Structure Epitope Mapping of Antierythropoietin Monoclonal Antibodies Reveals a Model of Recombinant Human Erythropoietin Structure," <u>Blood</u> , 87(7):2702-2713.					
	C243	Gillies et al., (1991), "Targeting Human Cytotoxic T Lymphocytes to Kill Heterologous Epidermal Growth Factor Receptor-Bearing Tumor Cells: Tumor-Infiltrating Lymphocyte/Hormone Receptor/Recombinant Antibody," J. Immunology, 146(3):1067-1071.					
	C244	Handgretinger et al., (1995), "A Phase I Study of Human/Mouse Chimeric Anti-ganglioside GD2 Antibody ch14.18 in Patients with Neuroblastoma," <u>European J. Cancer</u> , 31A(2):261-267.					
	C245	Harvill et al., (1995), "An IgG3-IL2 Fusion Protein Activates Complement, Binds FcγRI, Generates LAK Activity and Shows Enhanced Binding to the High Affinity IL-2R," Immunotechnology, 1:95-105.					
	C246	Harvill et al., (1996), "In Vivo Properties of an IgG3-IL-2 Fusion Protein: A General Strategy for Immune Potentiation," J. Immunology, 157(7):3165-3170.					
	C247	Hurn et al., (1980), "Production of Reagent Antibodies," Methods in Enzymology, 70: 104-142.					
	C248	Isenman et al., (1975), "The Structure and Function of Immunoglobulin Domains: II. The Importance of Interchain Disulfide Bonds and the Possible Role of Molecular Flexibility in the Interaction between Immunoglobulin G and Complement," J. Immunology, 114(6):1726-1729.					
_	C249	Lo et al., (1992), "Expression and Secretion of an Assembled Tetrameric CH2-deleted Antibody in E. Coli.," Hum. Antibod. Hybridomas, 3:123-128.					
	C250	Maecker et al., (1997), "DNA Vaccination with Cytokine Fusion Constructs Biases the Immune Responsible District Biases (1997), "DNA Vaccination with Cytokine Fusion Constructs Biases the Immune Responsible District Biases (1997), "DNA Vaccination with Cytokine Fusion Constructs Biases the Immune Responsible District Biases (1997), "DNA Vaccination with Cytokine Fusion Constructs					
EXAMI	NER	DATE CONSIDERED					



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: LEX-003

APPLICANT(S): Gillies et al.

SERIAL NO.: 09/256,156

FILING DATE: February 24, 1999 GROUP: 1647

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	C251 Mueller et al., (1990), "Enhancement of Antibody-Dependent Cytotoxicity With A Chimeric Anti-G Antibody," J. Immunology, 144(4):1382-1386						
	C252	Tumor Localization of a Chimeric Antibody Deleted of the aloganglioside GD2," Proc. Natl. Acad. Sci. USA., 87:5702-					
	C253	1	tial of Chimeric and Murine Anti-(Epidermal Growth Factor for Human Melanoma," <u>Cancer Immuno. Immunother.</u> , 37:343-				
	C254	Reisfeld et al., (1994), "Potential of Genetically Engineered Anti-Ganglioside GD2 Antibodies for Cand Immunotherapy," Prog. Brain Res., 101:201-212					
	C255	Saleh et al., (1992), "Phase I Trial of the Chimeric Anti-GD2 Monoclonal Antibody ch14.18 in Patients With Malignant Melanoma," Hum. Antibod. Hybridomas, 3:19-24.					
	C256	Sallusto et al., (1994), "Efficient Presentation of Soluble Antigen by Cultured Human Dendritic Cells Is Maintained by Granulocyte/Macrophage Colony-stimulating Factor Plus Interleukin 4 and Downregulated by Tumor Necrosis Factor a," J. Exp. Med., 179:1109-1118.					
	C257	Schlom (1991), "Monoclonal Antibodies: The Foundations of Oncology, pp. 95-133.	ney're More and Less Than You Think," in Molecular				
- · · -	C258	Wen et al., (1994), "Erythropoietin Structure-Function Relationships: Identification of Functionally Important Domains," J. Biological Chemistry, 269(36):22839-22846.					
	C259	C259 Xu et al., (1994), "Residue at Position 331 in the IgG1 and IgG4 CH2 Domains Contributes to Their Differential Ability to Bind and Activate Complement," J. Biol. Chem., 269(5):3469-3474.					
EXAMINER			DATE CONSIDERED				

3090950

EXPRESS MAIL MAILING LABEL NO. EV334240785US

JUL 0 8 2004

Complete if Known					
Application Serial Number	09/256,156				
Filing Date	February 24, 1999				
First Named Inventor	Gillies				
Group Art Unit	1647				
Examiner Name	Kapust, R.B.				
Attorney Docket No.	LEX-003				

TRADEN METHOD OF PAYMENT	FEE CALCULATION (continued)				
1. 🛛 Payment Enclosed:	3. ADDI	ΓΙΟΝΑL FE	ES		
Check Money Order Other	Large	Small			
	Entity	Entity	D. D. 1.41	Esa Daid	
2. The Commissioner is hereby authorized to credit	Fee	Fee	Fee Description	Fee Paid	
or charge any fee indicated below for this submission	(\$)	(\$)			
to Deposit Account No. 20-0531.	130	65	Surcharge - late filing fee or oath		
Required Fees (copy of this sheet enclosed). Additional fee required under 37 CFR 1.16 and	50	25	Surcharge - late provisional filing fee		
Additional fee required under 37 CFR 1.16 and 1.17.	30	23	or cover sheet	1	
Overpayment Credit.	130	130	Non-English specification	_	
3. Applicant claims small entity status.	2,520	2,520	Request for ex parte reexamination		
FEE CALCULATION	110	55	Extension for reply within first month		
1. FILING FEE	420	210	Extension for reply within second		
1. FILING FEE	.20	-10	month		
Large Entity	950	475	Extension for reply within third month		
Fee (\$) Fee Description Fee Paid	1480	740	Extension for reply within fourth		
			month		
	2010	1005	Extension for reply within fifth month		
770 Utility filing fee	330	165	Notice of Appeal		
340 Design filing fee	330	165	Filing a brief in support of an appeal		
160 Provisional filing fee	290	145	Request for oral hearing		
	130	130	Petitions to the Commissioner Submission of Information Disclosure	180.00	
Number Number Rate Amount	180	180	Statement Statement	160.00	
Filed Extra	770	385	Filing a submission after final		
Tited Extra	'''	505	rejection (37 CFR 1.129(a))		
Total Claims - 20 = x \$ 18.00 =	770	385	For each additional invention to be		
- 20 - X \$ 10.00 -	''	363	examined (37 CFR 1.129(b))		
Independent	100	100	Certificate of Correction for		
Claims $-3 = x \$ 86.00 =$			applicant's error		
	110	- 55	Submission of Terminal Disclaimer		
Multiple Dependent Claim(s), if any \$290.00 =	Other fee (Sp				
TOTAL:	Other fee (Sp	ecity)			
SMALL ENTITY DISCOUNT:					
SUBTOTAL (1) (\$) 0.00	1				
2. AMENDMENT CLAIM FEES	1				
Claims Highest No. Present Rate Fee Paid	[SUBTOTAL (3) (\$	180.00	
Remaining Previously Extra					
After Amend. Paid For					
Total - = $x \$ 18.00 =$	1		SUBTOTAL (1)	0.00	
Indep = x \$ 86.00 =	SUBTOTAL (2) 0.00				
First Presentation of Multiple Dep. + \$290.00 =			SUBTOTAL (3)	180.00	
Claim					
TOTAL: (\$)					
SMALL ENTITY DISCOUNT: (\$)	1		TOTAL (\$)	180.00	
SUBTOTAL (2) (\$) 0.00	1		TOTAL (3)	100.00	
CORRESPONDENCE ADDRESS	SIGNATURE BLOCK				
Direct all correspondence to:			Respectfully submitted,		
Patent Administrator	Dotor July 0	2004	K. on S		
Testa, Hurwitz & Thibeault, LLP	Date: July 8,		Brian A. Fairchild	- '	
High Street Tower-125 High Street	Reg. No.: 48				
Boston, MA 02110	Tel. No.: (61 Fax No.: (6			IIP I	
Tel. No.: (617) 248-7000	1 ax 140 (0	11,240-110	High Street Tower-125 High		
Fax No.: (617) 248-7100			Boston, MA 02110	2000	
	L				